

# **CMTA Lexington Office Building LEED Platinum Presentation**



**Kevin D. Mussler, PE, LEED AP, CxA**

# CMTA Lexington Office Building



**Architect:** *Sherman-Carter-Barnhart*

**LEED Consultant:** *CMTA*

**Contractor:** *Buzick Construction*

**Project Size:** 12,000 sf

**Total Cost:** \$3,000,000

**Occupancy:** July 2014

# Project Goals

- Increase space to accommodate growth
- Great work environment to promote productivity and enhance recruitment
- LEED Platinum
- Walk our Talk – maximize energy efficiency
- Building ownership has a better financial return





# LEED® Facts

## CMTA Lexington Office Lexington, Kentucky

LEED for New Construction v2009

Certification awarded April 16, 2015

**Platinum**

**81 points\***

Sustainable Sites	14/26
Water Efficiency	8/10
Energy & Atmosphere	35/35
Materials & Resources	4/14
Indoor Environmental Quality	10/15
Innovation & Design	6/6
Regional Priority Credits	4/4

*\*Out of a possible 110 points*



# LEED Sustainable Sites

Credit	Title/Requirements	Design/ Const	Point Achieved
SS PR 1	Construction Activity Pollution Prevention	C	Yes
SS CR1	Site Selection	D	Yes
SS CR2	Development Density & Community Connectivity	D	Yes
SS CR 4.3	Alternate Transportation, Low-Emitting and Fuel-Efficient Vehicles	D	Yes
SS CR 5.2	Site Development – Protect or Restore Habitat	D	Yes
SS CR 5.2	Site Development, Maximize Open Space	D	Yes
SS CR 6.2	Stormwater Design – Quality Control	D	Yes
SS CR 7.2	Heat Island Effect, Roof	D	Yes
SS CR 8	Light Pollution Reduction	D	Yes
			<b>14 Of 26 Points</b>

# LEED – Water

Credit	Title/Requirements	Design/ Const	Point Achieved
WE PR 1	Water Use Reduction – 20% Reduction	D	Yes
WE CR 1.2	Water Efficient Landscaping, No Potable Use or Irrigation	D	Yes
WE CR 3.4	Water Use Reduction, 40% Reduction	D	Yes
8 of 10 Points			



# LEED – Indoor Environmental Quality

Credit	Title/Requirements	Design/ Const	Point Achieved
EQ PR 1	Minimum IAQ Performance	D	Yes
EQ PR 2	Environmental Tobacco Smoke (ETS) Control	D	Yes
EQ CR 1	Outdoor Air Delivery Monitoring	D	Yes
EQ CR 3.1	Construction IAQ Management Plan, During Construction	C	Yes
EQ CR 4.1	Low-Emitting Materials, Adhesives & Sealants	C	Yes
EQ CR 4.2	Low-Emitting Materials, Paints & Coatings	C	Yes
EQ CR 5	Indoor Chemical and Pollutant Source Control	D	Yes
EQ CR 6.1	Controllability of Systems, Lighting	D	Yes
EQ CR 6.2	Controllability of Systems - Thermal Comfort	D	Yes
EQ CR 7.1	Thermal Comfort, Design	D	Yes
EQ CR 7.2	Thermal Comfort, Verification	D	Yes
EQ CR 8.2	Daylight & Views, Views	D	Yes

**10 of 15 Points**

# Materials & Resources

Credit	Title/Requirements	Design/ Const	Point Achieved
MR PR 1	Storage & Collection of Recyclables	D	Yes
MR CR 2.2	Construction Waste Management - Divert 75% from Disposal	C	Yes
MR CR 4.1	Recycled Content - 10% (post-consumer +½ Pre-consumer)	C	Yes
MR CR 5.2	Regional Materials - 20% Extracted, Processed & Manufactured Regional.	C	Yes
			<b>4 of 14 Points</b>





# Innovation & Design

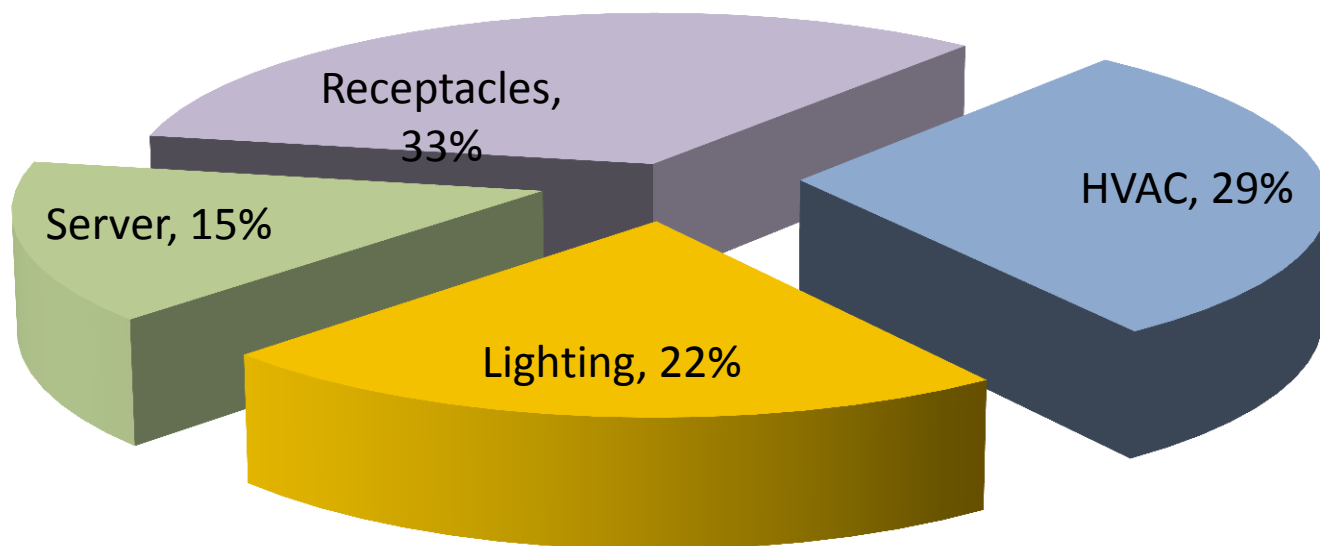
Credit	Title/Requirements	Design/ Const	Point Achieved
ID CR 1.1	Innovation in Design: On-Site Renewables	C	Yes
ID CR 1.2	Innovation in Design: Optimize Energy Performance	D	Yes
ID CR 1.3	Innovation in Design: Water Use Reduction >45%	C	Yes
ID CR 1.4	Innovation in Design: Low Mercury Lighting	C	Yes
ID CR 1.5	Innovation in Design: Green Cleaning	C	Yes
ID CR 2	LEED Accredited Professional	C	Yes
6 of 6 Points			

# Regional Priority

Credit	Title/Requirements	Design/ Const	Point Achieved
RP CR 1.1	Regional Priority: EA 1 reach 30%	D	Yes
RP CR 1.2	Regional Priority: EA 2 – 1% Renewable Energy	D	Yes
RP CR 1.3	Regional Priority: IEQ 7.1	D	Yes
RP CR 1.4	Regional Priority: WE CR 3	D	Yes
			<b>4 of 4 Points</b>

# Metered Energy Breakdown

EUI – 18 kBtu/sf yr



**Perfect ENERGY STAR Score of 100**



# LEED – Energy & Atmosphere

Credit	Title/Requirements	Design/ Const.	Point Achieved
EA PR 1	Fundamental Commissioning of the Building Energy Systems	C	Yes
EA PR 2	Minimum Energy Performance	D	Yes
EA PR 3	Fundamental Refrigerant Management	D	Yes
EA CR 1	Optimize Energy Performance Improve by 48%+ for New Buildings	D	Yes
EA CR 2	On-Site Renewable Energy	D	Yes
EA CR 3	Enhanced Commissioning	C	Yes
EA CR 4	Enhanced Refrigerant Management	D	Yes
EA CR 5	Measurement & Verification	C	Yes
EA CR 6	Green Power	C	Yes
			<b>35 of 35 Points</b>

# Solar PV System – Five Year ROI



9 kW PV Cost	\$36,500
Solar Tax Credit	(\$11,000)
Accelerated Depreciation (5 years vs. 39)	(\$15,000)
Energy Savings	(\$7,500)
SRECS	(\$2,500)
	\$500



# Questions?

kmussler@cmtaegrs.com  
www.cmtaegrs.com

